

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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Complete if Known	
Application Number	10/767,587
Filing Date	01/29/2004
First Named Inventor	Charles J. Moses
Art Unit	3679
Examiner Name	Hewitt, James M
Attorney Docket Number	11666.0138NP

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
JK	B1	EP 1,559,940 A1	8/3/2005	Europe	F16L	27/103	
JK	B2	EP 1,559,941 A1	8/3/2005	Europe	F16L	27/103	

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
JK	C1	WHITE, Liz; "Oil fields: tough on elastomers," Oilfield Uses, ERJ (European Rubber Journal), Dec. 1996, pages 35-36, 38, Crain Communications Ltd, London, England.
JK	C2	POTTER, J.L.; "The Elastomeric Bearing: What It Can Do For You," Lord Kinematics, Lord Corporation, presented at the Design Engineering Conference & Show, Philadelphia, PA, April 9-12, 1973, 8 pages, The American Society of Mechanical Engineers, New York, NY.
JK	C3	HERBST, Paul T.; "Natural rubber as a bearing material for rotary wing aircraft applications," 1973, 8 pages, Lord Kinematics, Lord Corporation, Erie, PA.
	C5	"Deepwater Installations - Flexibility for Mooring and Production Systems," oilstates.com/solutions/offshore/deepwater_installations/file.asp, printed January 26, 2004, 6 pages, Oil States Industries, Arlington, Texas
	C6	"Offshore," oilstates.com/Solutions/Offshore/file.asp, 2002-2004, printed January 26, 2004, 2 pages, Oil States Industries, Arlington, Texas.
	C7	"Steel Catenary Riser FlexJoint®," oilstates.com/solutions/offshore/deepwater_installations/SCR/file.asp, 2002-2004, printed January 26, 2004, 2 pages, Oil States Industries, Arlington, Texas.
JK	C8	"SCR FlexJoint®, Feature," oilstates.com/solutions/offshore/deepwater_installations/SCR/file.asp?id=299, April 30, 2003, 2 pages; Oil States Industries, Arlington, Texas.

Examiner Signature		Date Considered	4-16-07
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JH	C9	"SCR FlexJoint®, Sizes," oilstates.com/solutions/offshore/deepwater_installations/SCR/file.asp?id=300, April 30, 2003, 2 pages, Oil States Industries, Arlington, Texas.					
	C10	"SCR FlexJoint® - Bellows," oilstates.com/solutions/offshore/deepwater_installations/SCR/file.asp?id=301, April 30, 2003, 2 pages, Oil States Industries, Arlington, Texas.					
	C11	"SCR FlexJoint® - Installation Sequence," oilstates.com/solutions/offshore/deepwater_installations/SCR/file.asp?id=303, April 30, 2003, 5 pages, Oil States Industries, Arlington, Texas.					
	C12	"Explosive Decompression," oilstates.com/solutions/offshore/deepwater_installations/SCR/file.asp?id=304, April 3, 2003, 2 pages, Oil States Industries, Arlington, Texas.					
	C13	"Steel Catenary Risers - Attachment Methods," oilstates.com/solutions/offshore/deepwater_installations/SCR/file.asp?id=306, April 30, 2003, 2 pages, Oil States Industries, Arlington, Texas.					
↓	C14	"Steel Catenary Risers - Lynx Connector," oilstates.com/solutions/offshore/deepwater_installations/SCR/file.asp?id=307, April 3, 2003, 1 page, Oil States Industries, Arlington, Texas.					
	C15	"SCR FlexJoint® - Application History," oilstates.com/solutions/offshore/deepwater_installations/SCR/file.asp?id=302, 2002-2004, printed January 26, 2004, 2 pages, Oil States Industries, Arlington, Texas.					
JH	C16	"Rubber Technology 101 Rubber Chemistry;" rubberdevelopment.com/pages/rubber101.htm, 1999-2000, 4 pages, Rubber Development, Inc., Waverly, Iowa.					
	C17	"Rubber and Plastics," ccdconsulting.com/Rubber%20and%20Plasticsa.html, printed January 15, 2004, 2 pages, CCD Consulting, Norwich, CT.					
JH	C18	"Materials - Rubber Polymer," Chart 1, lavelle.com/tech_rbra.html, 2001, 3 pages, Lavelle Industries, Burlington, WI.					
	C19	"Materials - Rubber Polymers;" Chart 2, lavelle.com/tech.rrb.html, 2001, 3 pages, Lavelle Industries, Burlington, WI.					
↓	C20	"JP, USP & EP Compliant Formulations;" itran- tompkinsrubber.com/tmaterials.html, 2000, 2 pages, Itran-Tompkins Rubber Corporation, South Plainfield, NJ.					

Examiner Signature	<i>Patricia L.</i>	Date Considered	4-16-07
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(Use as many sheets as necessary)				Filing Date	01/29/2004		
Sheet	3	of	7	First Named Inventor	Charles J. Moses		
				Art Unit	3679		
				Examiner Name	Hewitt, James M		
				Attorney Docket Number	11666.0138NP		

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
JK	C21	"Nitrile (Buna-N)," applerubber.com/sdg/dguide/sec_6/nitrile.cfm, 1999, 2 pages, Apple Rubber Products Inc., Lancaster, NY.					
	C22	"Nitrile Rubber Compound Series - Processing Parameters," chaseuk.com/prod05.htm, printed January 15, 2004, 3 pages, Chase Elastomer (UK) Ltd, Cheshire, England.					
JK	C23	"Nitrile Hydrogenated (HNBR)," applerubber.com/sdg/dguide/sec_6/hnbr.cfm, 1999, 2 pages, Apple Rubber Products, Inc., Lancaster, NY.					
JK	C24	"Hydrogenated Nitrile Butadiene Rubber (HNBR) - Properties and Applications of Hydrogenated Nitrile Butadiene Rubber;" azom.com/details.asp?ArticleID=1724, 2003, 3 pages, Azom Pty. Ltd., Warriewood, NSW, Australia.					
	C25	"Rubber Physical and Chemical Properties- Temperature Resistance Properties;" "Silicone Rubber Thermal Properties," dowcorning.com/content/rubber/rubberprop/rubber_thermal.asp, 2000-2004, printed January 20, 2004, 1 page, Dow Corning Corporation, Midland, MI.					
	C26	"Rubber Physical and Chemical Properties--Heat Aging at High Temperature;" "Silicone Rubber Heat Aging," dowcorning.com/content/rubber/rubberprop/thermal_aging.asp, 2004, printed January 20, 2004, 4 pages, Dow Corning Corporation, Midland, MI.					
	C27	"Zeotherm Thermoplastic Vulcanizates (TPVs) - Easy-to-process TPVs with inereditble heat and oil-resistance;" Zeon Chemicals L.P., 2003, zeotherm.com/, 2 pages, printed January 15, 2004.					
JK	C28	"PEEK-HT polymer adds superior high temperature heat performance to Victrex® PEEK polymer portfolio," victrex.com, 2003, 2 pages, Victrex plc., Lancashire, England.					
JK	C29	"Industrial Market - Victrex PEEK performance benefit," victrex.com/uk/markets.asp?id=25, 2003, 2 pages, Victrex plc., Lancashire, England.					

Examiner Signature	<i>hewitt</i>	Date Considered	4-16-07
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Sheet	4	of	7	Attorney Docket Number	11666.0138NP		

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	C30	<i>"The Greene Tweed Seal-Connect 8 pin connector moulded in Victrex PEEK-HT polymer;"</i> victrex.com/uk/markets.asp?id=4722 , 2003, 2 pages, Victrex plc., Lancashire, England.					
JH	C31	JENSEN, R.E. et al., "Analysis of Lightweight Electronic Encapsulant Materials for Smart Munitions Applications;" Dec. 4, 2002, 23 rd Army Science Conference, Orlando, Florida, 2 pages, United States Army Research Laboratory, Aberdeen, MD.					
	G32	<i>"Vantico Epoxy Adhesives,"</i> isaadhesives.com/vantico.html , printed January 26, 2004, 3 pages, Industrial Sales Associates, Inc., Tyngsboro, MA					
	C33	<i>"UCON Fluids Products & Applications - Heat Transfer Fluids;"</i> 1995-2004, 1 page, The Dow Chemical Company, Midland, MI					
	C34	<i>"UCON Fluids Products & Applications - UCON Lubricant Base Stock;"</i> dow.com/polyglycols/ucon/products/base.htm , 1995-2004, printed January 26, 2004, 2 pages, The Dow Chemical Company, Midland, MI					
	C35	<i>REDDY, R.G., et al., "Ionic Liquids as Thermal Energy Storage Media for Solar Thermal Electric Power Systems,"</i> 17 pages, The University of Alabama, Tuscaloosa, AL					
JH	C36	<i>"Araldite 2014 (AW 139/XB 5323) Heat/Chemical-Resistant Adhesive;"</i> published before Oct. 7, 2002, 6 pages, Vantico Inc., East Lansing, MI.					
JH	C44	<i>"Propylene Glycol,"</i> The Merck Index, 8 th Edition, 1968, pages 876-877, Merck & Co., Inc., Rahway, NJ.					
JH	C45	<i>"Polyalkylene glycol,"</i> Household Products Database, householdproducts.nlm.nih.gov , May 12, 2005, 1 page, U.S. National Library of Medicine, Bethesda, MD					

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				Examiner Name	Hewitt, James M
Sheet	5	of	7	Attorney Docket Number	11666.0138NP

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
JH	C46	"Polyalkylene glycol monobutyl ether," CHEMINFO, intox.org, March 9, 2005, 6 pages, Canadian Centre for Occupational Health and Safety, Hamilton, Ontario, Canada,					
JH	C47	WU, B., REDDY, R., and ROGERS, R., "Novel Ionic Liquid Thermal Power Storage For Solar Thermal Electric Power Systems," ASME Proceedings of Solar Forum 2001 Solar Energy: The Power to Choose April 21-25, 2001, Washington, DC (7 pages), American Society of Mechanical Engineers, New York, NY.					
JH	C48	POPESCU, A., "Communication pursuant to Article 96(2) EPC," European Patent Application No. 05,250,439.6-1252, Jan. 23, 2006, 6 pages, European Patent Office, Munich, Germany					
JH	C49	POPESCU, A., "Communication pursuant to Article 96(2) EPC," European Patent Application No. 05,250,427.1-1252, Feb. 2, 2006, 5 pages, European Patent Office, Munich, Germany					
JH	C50	"Joint Industry Program for High Temperature FlexJoints®,," Oil States Document No. SP1K-23-040, Rev. A, created 16 July 1996, published Aug. 4, 2005, 17 pages, U.S. Patent Application Ser. 10/767,587, U.S. Patent and Trademark Office, Arlington, Virginia					
JH	C51	HOGAN, Michael E., et al., "Joint Industry Program High Temperature FlexJoint® Final Report," Oil States Document No. SP1E-23-090 created Sep. 9, 1998, published Aug. 4, 2005, 11 pages, U.S. Patent Application Ser. 10/767,587, U.S. Patent and Trademark Office, Arlington, Virginia.					
JH	C52	"Exxon-Erha FlexJoint® Preliminary Design Summary," Oil States Document created June 18, 2001, published Aug. 4, 2005, pages 1-22, U.S. Patent Application Ser. 10/767,587, U.S. Patent and Trademark Office, Arlington, Virginia.					
	C53	"Proposal for the Provision of FlexJoints® for the Esso Exploration and Production Nigeria Ltd Erha Project EPC2," Oil States Document SP1K-23-113, Rev 0, created June 28, 2001, 66 pages, Oil States Industries, Arlington, Texas (Prices Redacted).					

Examiner Signature	<i>J. M. L.</i>	Date Considered	4-16-07
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				Art Unit	3679		
				Examiner Name	Hewitt, James M		
Sheet	6	of	7	Attorney Docket Number	11666.0138NP		

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
JH	C54	"Crazyhorse 12-In. Import FlexJoint® Design," Oil States Document created May 10, 2001, published Aug. 4, 2005, pages 1-28, U.S. Patent Application Ser. 10/767,587, U.S. Patent and Trademark Office, Arlington, Virginia.					
	C55	MOSES, Philip S., et al., "12" High Temperature / High Pressure (HTHP) SCR FlexJoint® Design Study for the BP Crazy Horse Project," Oil States Document No. SP1E-23-163 created Aug. 31, 2001, 84 pages, Oil States Industries, Inc., Arlington, Texas.					
JH	C56	"Thermal barrier configuration," Oil States flexible joint summary drawing, Figure 5-53 and Appendix A created Oct. 30 2002, published Aug. 4, 2005, U.S. Patent Application Ser. 10/767,587, U.S. Patent and Trademark Office, Arlington, Virginia.					
JH	C57	POTTER, J.L., "The elastomeric 'bearing:' what it can do for you," <u>Mechanical Engineering</u> , December 1973, pages 22-27, The American Society of Mechanical Engineers, New York, NY.					
JH	C58	"Oil States Standard FlexJoints®, April 1996, 4 pages, Oil States Industries, Inc., Arlington, TX.					
JH	C59	"PEEK," Datasheet, published before Oct. 7, 2002, 10 pages, Victrex plc., Lancashire, England.					
JH	C60	"ExxonMobil Approves Thunder Horse Project Funding," RIGZONE.com, Aug. 21, 2002, one page.					
	C61	Oil States Hardware Systems Design and Manufacturing Services Contract BPA-01-05771 Rev. 1 created April 3, 2002, BP America Production Company, 60 pages (Prices Redacted).					
	C62	Project Release Against Hardware System Design And Manufacturing Services Contract BPA-01-05771, Release No. BPR-02-06528 executed April 9, 2002, to Contractor Oil States Industries, BP America Production Company, 22 pages (Prices Redacted).					

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Art Unit	3679
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Attorney Docket Number	11666.0138NP

C63	Project Release Against Hardware System Design And Manufacturing Services, Contract BPA-01-05771, Release No. BPR-04-00927 issued May 5, 2004, to Contractor Oil States Industries, BP America Production Company, 16 pages (Prices Redacted).
C64	"Elastomer Development for the HPHT SCR FlexJoint® Applications," Oil States Document SP1E-23-181 created 18 March 2002, 29 pages.
C65	"High Temperature 12" Production SCR FlexJoint® Design Study for the ExxonMobil Erha Project," Oil States Document SP1E-23-161 created 10 March 2003, 100 pages.
C66	"Commercial Proposal for the Provision of FlexJoints® for the Esso Exploration and Production Nigeria Ltd ERHA Project EPC2," Submitted by Oil States Industries, Inc. to Stolt Offshore Services S.A., Oil States Document SP1K-23-114(B) Commercial, Rev. 2, created 30 June 2003, 14 pages (Prices Redacted).
C67	"Technical Proposal for the Provision of FlexJoints® for the Esso Exploration and Production Nigeria Ltd ERHA Project EPC2," Submitted by Oil States Industries, Inc. to Stolt Offshore Services S.A., Oil States Document SP1K-23-114(B) Technical, Rev. 2, created 20 June 2003, 90 pages.
C68	Collection of E-mail to and from Michael Hogan of Oil States Industries, Inc., related to the Erha project, created May 16, 2001 to June 12, 2003, 9 pages. Oil States Industries, Inc., Arlington, Texas

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Not for submission under 37 CFR 1.99)</i>	Application Number		10767587	
	Filing Date		2004-01-29	
	First Named Inventor		Charles J. Moses	
	Art Unit		3679	
	Examiner Name		Hewitt, James M.	
	Attorney Docket Number		11666.0138NP	

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Examiner Name	Hewitt, James M.
Attorney Docket Number	11666.0138NP

1	"BP ThunderHorse 12" HPHT SCR FlexJoint(R) Design Summary," Oil States Industries Proprietary Document No. SP1E-23-205 Rev. 3 created 30 Oct. 2002, Oil States Industries, Arlington, TX, 192 pages.	<input type="checkbox"/>
2		<input type="checkbox"/>

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